

1 GCTGTGGAA CCTCTCCAG CGCAGCAACT CAGCCAAACGA TTTCTGATAG ATTTTGGGA GTTTGACCAG AGATGCAAGG GGTGAAGGAG CGCTTCCFAC
CGACACCCCTT GGAGAGGTGC GCGTGTCTGA GTCGGTTGCT AAAGACTATC TAAAAACCTT CAAACTGGTC TCTACGTTC CCACITTCCTC GCGAAGGAG

101 CGTTAGGAA CTCTGGGAC AGAGGGCCC GCGCGCTGA TGGCCGAGG AGGGTGGAC CCAGGACCCA GGACGGCGTC GGAACCCATA CCATGGCCCG
GCAATCCCTT GAGACCCCTG TCTCGCGGG CCGCGGACT ACCGGCTCCG TCCCACGCTG GGTCTGGGT CCTTGGTAT GGTACCGGCGC
MetalArg

201 GATCCCCAAG ACCCTAAAGT TCGTCTGCTG CATCTGCTGG GTCCTGCTGC CAGTCTTAGC TTAATCTGCC ACCACTGCCC GGCAGGAGGA AGTTCCCCCAG
CTAGGGGTTT TGGGATTTCA AGCAGCAGCA GTAGACGCG CAGGACGAC GTGAGGATCG AATGAGACGG TGGTGACGG CCGTCTCCT TCAAGGGGTC

4 IleProLys ThrLeuLysP heValValva lIleValala ValLeuLeuP roValLeuAl aTyrSerAla ThrThrAlaa rgGlnGluGl uValProGln

301 CAGACAGTGG CCCACAGCA ACAGAGGCAC AGCTTCAAG AGGAGGAGTG TCCAGCAGGA TCTCATAGAT CAGAACATAC TGGAGCCTGT AACCCGTGCA
GTCTGTCACC GGGGTGCTGT TGTCTCCGTG TCGAAGTTCC CCTCTCTCAC AGGTGCTCCT AGAGTATCTA GTCTGTATG ACCTCGGACA TTGGGGACGT

37 GlnThrVala laProGlnGl. nGlnArgHis SerPheLysG lyGluGluCy sproAlaGly SerHisArgS erGluHisTh rGlyAlaCys AsnProCysThr

401 CAGAGGGTGT GGATTACACC AACGCTTCCA ACAATGAACC TTCTTGCTTC CCATGTACAG TTTGTAAATC AGATCAAAAA CATAAAAGTT CCTGCACCAT
GTCTCCACA CCTAATGTGG TTGCGAAGGT TGTACTTGG AAGAAGGAG GGTACATGTC AAACATTTAG TCTAGTTTT GTATTTTCAA GGACGTGTA

71 GluglyVa lasPtyrThr AsnAlaSerA snAsnGluPr oSerCysPhe ProCysThrV alCysLysSe rAspGlnLys HisLysSers erCysThrMet

501 GACCAGAGAC ACAGTGTGTC AGTGTAAAGA AGGCACCTTC CGGAATGAAA ACTCCCCAGA GATGTGCCGG AAGTGTAGCA GGTGCCCTAG TGGGGAAAGTC
CTGGTCTCTG TGTACACACAG TCACATTTCT TCCGTGGAAG GCCTTACTTT TGAGGGGTCT CTACACGGCC TTCACATCGT CCACGGGATC ACCCTTTCAG

104 ThrArgAsp ThrValCysG lncysLysGl uGlyThrPhe ArgAsnGluA snSerProGl uMetCysArg LysCysSera rCysProse rGlyGluVal

601 CAAGTCAGTA ATTGTACGTC CTGGATGAT ATCCAGTGTG TTGAAGAATT TGGTGCCAAT GCCACTGTGG AAACCCCGAG TGCTGAAGAG ACAATGAACA
GTTGAGTCTAT TAACATGCAG GACCCCTACTA TAGGTACAC ACCTTCTTAA ACCACGGTTA CCGTGACACC TTTGGGGTGC ACGACTTCTC TGTTACTTGT

137 GlnValserA snCysThrse rTrpAspAsp lIleGlnCysV alGluGluPh eGlyAlaAsn AlaThrValG luThrProAl aAlaGluGlu ThrMetAsnThr

701 CCAGCCCGGG GACTCCTGCC CCAGCTGCTG AAGAGACAAT GAACACCAGC CCAGGGACTC CTGCCCCCAGC TGCTGAAGAG ACAATGACCA CCAGCCCGGG
GGTCCGGCCC CTGAGGACGG GGTGACGAC TTCTCTGTTA CTGTGGTGC GTCCCTGAG GACGGGGTGC ACGACTTCTC TGTTACTTGT GGTCCGGCCC

171 SerProGl yThrProAla ProAlaAlaG luGluThrMe tAsnThrSer ProGlyThrP roAlaProAl aAlaGluGlu ThrMetThrT hrSerProGly

801 GACTCCTGCC CCAGCTGCTG AAGAGACAAT GACCACCAGC CCGGGGACTC CTGCCCCCAGC TGCTGAAGAG ACAATGACCA CCAGCCCGGG GACTCCTGCC
CTGAGGACGG GGTGACGAC TTCTCTGTTA CTGTGGTGC GTCCCTGAG GACGGGGTGC ACGACTTCTC TGTTACTTGT GGTCCGGCCC CTGAGGACGG

204 ThrProAla ProAlaAlaG luGluThrMe tThrThrSer ProGlyThrP roAlaProAl aAlaGluGlu ThrMetThrT hrSerProGl yThrProAla

901 TCTTCTCATT ACCTCTCATG CACCATCGTA GGGATCATAG TTCTAATTGT GCTTCTGATT GTTTTGTGTT GAAAGACTTC ACTGTGGAAG AAATTCCTTC
AGAAAGATAA TGGAGAGTAC GTGGTAGCAT CCTAGTATC AAGATTAACA CGAAGACTAA CACAAACAAA CTTTCTGAAG TGACACCTTC TTTAAGGAAG

237 SerSerHist yrLeuserCy sThrIleVal GlyIleIleVal lleuLeuille valPheVal

1001 CTTACCTGAA AGGTTAGGT AGGCGCTGGC TGAGGGCGGG GGGCGCTGGA CACTCTCTGC CCTGCCTCCC TCTGCTGTGT TCCCACAGAC AGAAACGCCT
GAATGACTT TCCAAGTCCA TCCGGGACCG ACTCCGCCCC CCGCGGACCG GTGAGAGACG GGACGGAGGG AGACGACACA AGGTGTCTG TCTTTGCGGA

1101 GCCCCTGCC CAAAAAAGAA AAAAAAAGAA AAAAAAAGAA AAAAAAAGAA AAAAAAAGAA AAAAAAAGAA AAAAAAAGAA AAAAAAAGAA
CGGGACGGG GTTTTCTTT TTTTCTTTT TTTTCTTTT TTTTCTTTT TTTTCTTTT TTTTCTTTT TTTTCTTTT TTTTCTTTT

-40

Apo2	1	-----MEQRGQNA
Apo2DcR	1	-----MARIPKTLKFVV
DR4	51	GRGALPTSMGQHGPSARARAGRAPGPPAREASPRLRVHKTFFKFVVVGVI
Apo2	41	VVAAVLLLVSAESALITQODLAPQRAAPQOKESSPSEGLCPPGHHISED
Apo2DcR	13	VIVAVLLPVLAYSATTAQEEVPOQTVAPQQRHSFKGEECPAGSHRSEH
DR4	101	LQVVPSSAATIK-----LHDQSIGTQOWEHSPLGELCPPGSHRSEH
Apo2	91	GRDCISCKYQDYSTHWN [↓] DLFCIRCTRCDSGEVELSPCTTTRNTVCOCE
Apo2DcR	63	TGACNPCTEGVDYTNASNNPSCFPCTVCKSDQKHKSCTMTRDTVCOCK
DR4	142	PGACNRCTEGVGYNASNNIFACLPCTACKSDEEERSPCTTTRNTACOCK
Apo2	141	EGTFREEDSP ^{CRD1} EMCRKCR ^{CRD1} TGCPRGMVKVGDC ^{CRD1} TFWSDIECVHKE-----
Apo2DcR	113	EGTFERNENSP ^{CRD2} EMCRKCSR-CPSGEVOVS ^{CRD2} NCTSWDDIOCVE-EFGANATVE
DR4	192	PGTFERNDNSAEMCRKCS ^{CRD2} TGCPRGMVKVGDC ^{CRD2} TFWSDIECVHKE-----
Apo2	161	TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAE
Apo2DcR	211	ETMTTSPGTPAPAAEETMTTSPGTPASSHYLSCTIVGIIVLIVLLIVFV
DR4	234	-----SGNGHN ^{SGII} IWVILVVTLVVPIILLVAV-LIVC
Apo2	203	CKSLLWKKVLPYLKGICSGGGGDPERVDRSSQRPGAEDNVLNEIVSILQP
DR4	262	CCIGSGCGGDPKCMDRVCFWRLGLLRGPGAEDNAHNEILSNADSLSTFVS
Apo2	253	TQVPEQEMEVOEPAEPTGVNMLSPGESEHLLPAAEAERSORRRRLVPANE
DR4	312	----EQOMESQEPADLTGVTVQSPGEAQCLLGPAEAEGSORRRRLVPANG
Apo2	303	GDPTETLRQCFDDFADLVPPDSWEPI [*] MRKLGIMDNEIKVAKAEAAGH--R
DR4	358	ADPTETLMLFFDKFANIVPFDSDQLMRQDLTKNEIDVVV [*] RAGTAGP--G
Apo3/DR3	338	VMDAVPARRWKEFVRTLGLREAIEAVEVEI-GRF-R
TNFR1	322	VVENVPPLRWKEFVRLGLSDHEIDRIELON-GRCLR
CD95	220	IAGVHTLSQVKGFVRKNGVNEAKIDEIKNDN-VQDTA
Apo2	351	DTLYTMLIKWVNKTGR-DASVHTLLDALET [*] LGERLAKOK [*] IEDHLLSSGKF
DR4	406	DALYAMLKMWVNKTGR-NASHTLLDALERMEERHAK [*] EKIQDILLVDSGKF
Apo3/DR3	374	DQOYEMLKRWROQQP---AGLGAVYAALERMGLDCCVEDLRS
TNFR1	358	EAQYSMLATWRRRTPPREATLELLGRVLRDMDLLGCLEDIEE
CD95	256	EQKVQLLRNWHQLHGKKEAY-DTLLIKDLKKANLCTLAEKIQT
Apo2	400	MYLEGNADSALS
DR4	455	IYLEDGTGSAVSLE

Fig. 2

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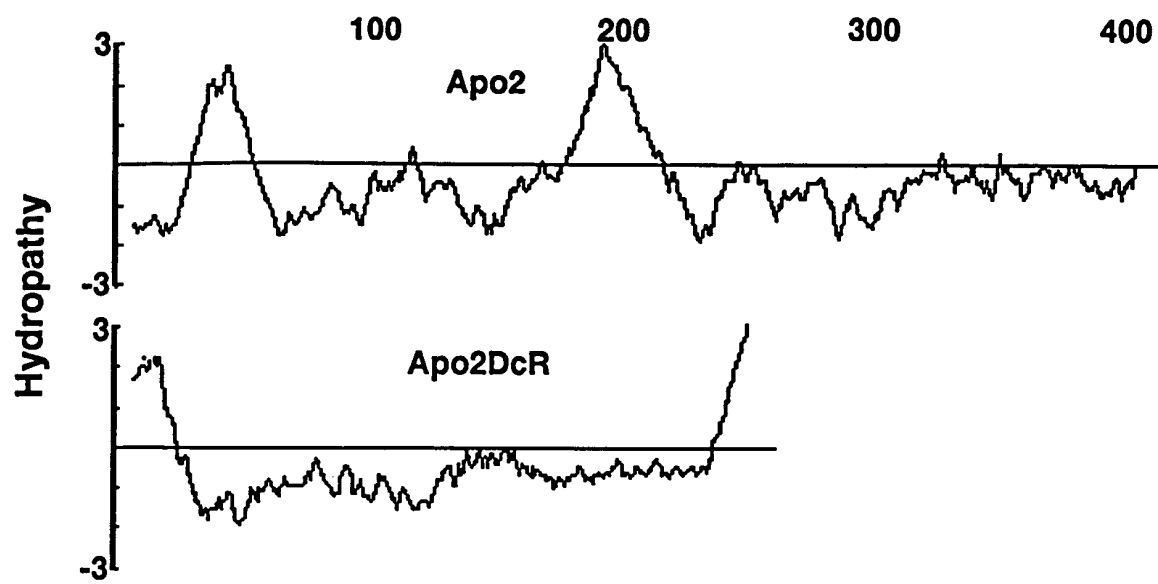


Figure 3

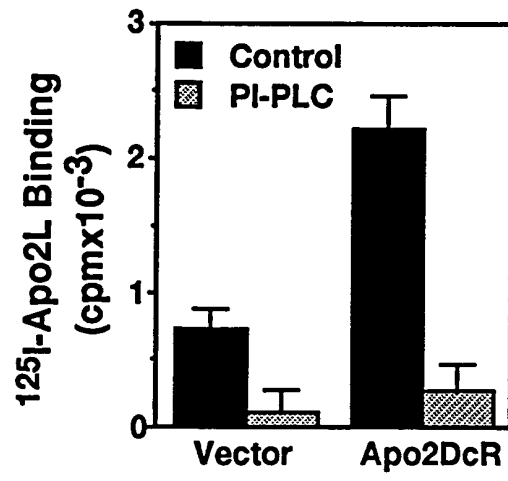


Figure 4

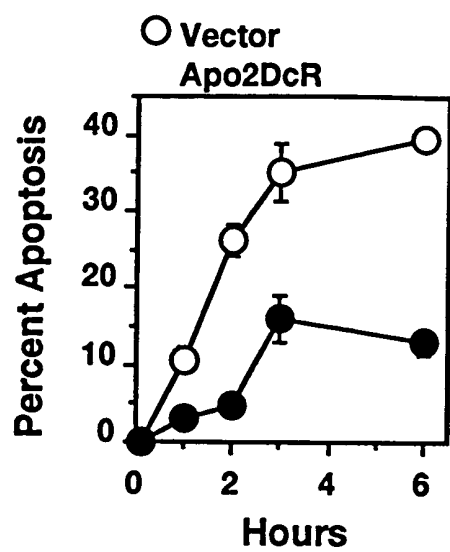


Figure 5

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Figure 6

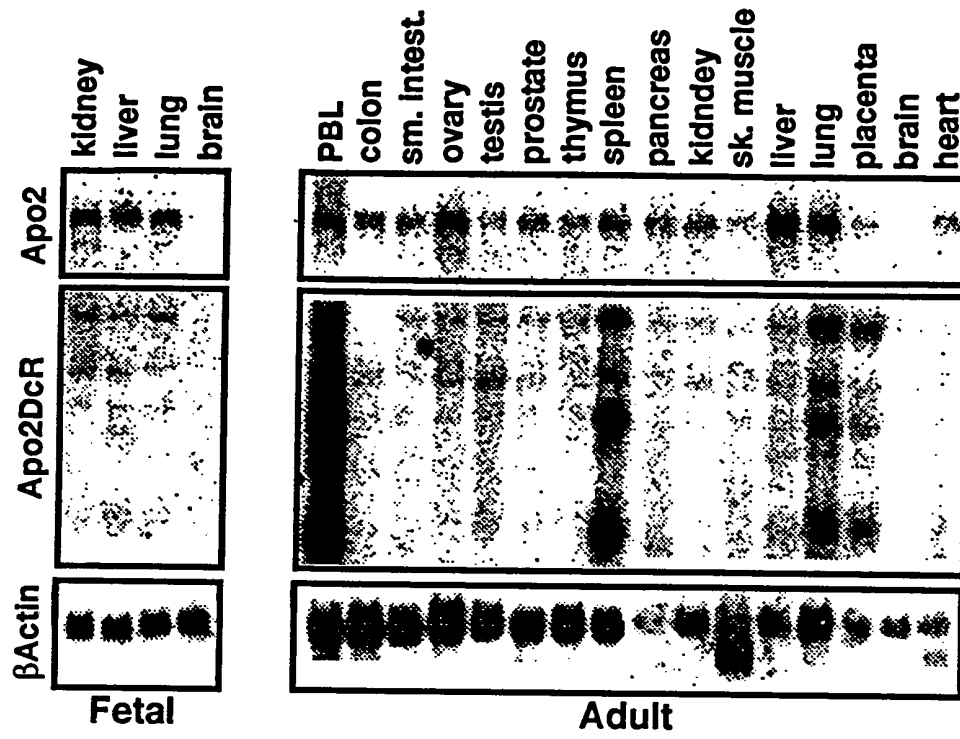


Figure 7

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GGGTGGCAG GCGTATTAG TCGTGGCCG GCGTCTGGG GCGTTAGAGA CGCGGTGTT TTATGTGGCT GCTACGGGCT AGATGAAATT CCGACTTTG

101 CCACGGGCTT GAGAGACTAT AAGAGCGTTC CCTACCGCCA TGGACAACAC GCGCCGGCCG CTTCCGGGGC CCGGAAAAGG CACGGCCACG
GGTGGCCGGA CTCTCTGATA TTCTCGCAAG GGATGGCGGT ACCTGTGTC CCTGTCTTG CCGGGCCGGC GAAGCCCGG GGCCTTTTCC GTCCGGGTC

1 M etgluGlnar gGlyGlnAsn AlaProAlaA laSerGlyAl aArgLysArg HisGlyProGly

201 GACCCAGGGA GCGCGGGGA GCCAGGCCGT GGCTCCGGGT CCCAAGACC CTTGTGCTCG TTGTCCGGCG GGTCTGCTG TTGGTCTCAG CTGAGTCTGC
CTGGTCCCT CCGCGCCCT CCGTCCGGAC CCGAGGCCCA GGGTTCTTG GAACACGAGC AACAGCGCG CCAGGACGAC AACAGAGTC GACTCAGACG

22 ProArgG1 uAlaArgGly AlaArgProG lyLeuArgva lProLysThr LeuValLeu alValAlaA alValLeu LeuValserA laGluSerAla

301 TCTGATCACC CAACAAGACC TAGTCCCCA GCAGAGAGCG GCCCCACAAC AAAAGAGGTC CAGCCCCCTCA GAGGATTGT GTCCACCTGG ACACCATATC
AGACTAGTG GTTGTCTTG ATCGAGGGT CGTCTCTCG CCGGGTGTG TTTTCTCCAG GTCCGGGAGT CTCCTAACA CAGGTGGACC TGTGGTATAG

55 LeuileThr GlnGlnAspL euAlaProG1 nGlnArgAla AlaProGlnG lNlysArgse rSerProSer GluGlyLeuC ysProProG1 yHisHisile

401 TCAGAAGACG GTAGAGATTG CATCTCCTGC AAATATGGC AGGACTATAG CACTCACTGG AATGACCTCC TTTTCTGCTT GCGCTGCACC AGGTGTGATT
AGTCTCTGC CATCTCTAAC GTAGAGGACG TTTATACCTG TCCTGATATC GTAGTGACC TTACTGGAGG AAAAGACGAA CCGACGTGG TCCACACTAA

88 serGluAspG lyArgAspCy sileSerCys LysTyrGlyG lNAspTyrse rThrHisTrp AsnAspLeuL eupheCysLe uArgCysThr ArgCysAspser

501 CAGGTGAAGT GGAGCTAAGT CCCTGCACCA CGACCAAAA CACAGTGTGT CAGTGGGAAAG AAGGCACCTT CCGGGAAGAA GATTCTCCTG AGATGTGCCG
GTCCACTTCA CCTCGATTCA GGGACGTGGT GCTGGTCTTT GTGTACACA GTACCGCTTC TTCCGTGGAA GGCCTTCTT CTAAGAGGAC TCTACACGGC

122 GlyGluva lGluLeuSer ProcysThrT hrThrArgas nThrValCys GlnCysGluG luGlyThrPh eArgGluGlu AspserProG luMetCysArg

601 GAAGTCCGC ACAGGGTGT CCGAGGSGAT GGTCAAGGTC GGTGATTGTA CACCCTGGAG TGACATCGAA TGTGTCCACA AAGAATCAGG CATCATCATA
CTTACGGCG TGTCACACG GGTCTCCCTA CCAAGTCCAG CCACCTAACAT GTGGGACCTC ACTGTAGCTT ACACAGGTGT TTCTTAGTCC GTAGTAGTAT

155 LysCysArg ThrGlyCysP roArgGlyMe tValLysVal GlyAspCysT hrProTrpSe rAspIleGlu CysValHisL ysGluSerG1 yleilleile

701 GGAGTCACAG TTGACGCCGT AGTCTTGATT GTGGCTGTGT TTGTTTGCAA GTCCTTACTG TGGAAAGAAAG TCCTTCCCTTA CCTGAAAGGC ATCTGCTCAG
CCTCAGTGT AACGTGGCA TCAGAACTAA CACCGACACA AACAAAAGTT CAGAAATGAC ACCTTCTTTC AGGAAGGAAT GGACTTTCCG TAGACGAGTC

188 GlyValThrV alAlaAlava lValleuile ValAlaValP heValCysLy sSerLeuLeu TrpLysLysv alleuProTy rLeuLysGly ileCysSerGly

801 GTGGTGGTGG GGACCTTGAG CGTGTGGACA GAAGCTCACA ACGACCTGGG GCTGAGGACA ATGTCTCTCA ATGATCTGTG AGTATCTTGC AGCCCCCA
CACCACACC CCTGGGACTC GCACACCTGT CTTTCGAGTGT TGCTGGACCC CGACTCCTGT TACAGGAGTT ACTCTAGCAC TCATAGAACC TCGGGTGGGT

222 GlyGlyG1 yAspProGlu ArgValAspA rgSerSerG1 nArgProGly AlaGluAspA snValLeuAs nGluilleVal serilleLeuG lnProThrGln

901 GGTCCCTGAG CAGGAAATGG AAGTCCAGGA GCCAGCAGAG CCAACAGGTG TCAACATGTT GTCCCCCGG GAGTCAGAGC ATCTGCTGGA ACCGGCAGAA
CCAGGGACTC GTCTTTTACC TTCAGGTCTC CCGTCTCTC GGTGTCTCAG AGTTGTACAA CAGGGGGCC CTCAGTCTCG TAGACGACCT TGGCCGTCTT

255 ValProGlu GlnGluMetG luValGlnG1 uproAlaGlu ProThrGlyv alAsnMetLe uSerProGly GluSerGluH isLeuLeuG1 uproAlaGlu

1001 GCTGAAAGGT CTCAGAGGAG GAGGCTGCTG GTTCCAGCAA ATGAAGGTGA TCCCAGTGA ACTCTGAGC AGTGCTTCCA TGACTTTGCA GACTTGGTGC
CGACTTTCCA GAGTCTCTC CTCGACGAC CAAGGTCTGT TACTTCCACT AGGTGACTC TGAGACTCTG TCACGAAGCT ACTGAAACGT CTGAACCCAG

288 AlaGluArgS erglnArgar gArgLeuLeu ValProAlaA snGluGlyAs pProThrGlu ThrLeuArgG lNcysPheAs paspPheAla AspLeuValPro

1101 CCTTTGACTC CTGGGAGCCG CTCATGAGGA AGTTGGGCTT CATGGAGGATTT GGGGTTAAAGC TGAGGCAGCG GCCACAGGG ACACCTTGTA
GGAAACTGAG GACCCTCGGC GAGTACTCCT TCAACCCGGA GTACCTGTTA CTCTATTTCG ACCGATTTCC ACTCCGTCCG CCGGTGTCCC TGTGGAACAT
322 PheAspSe rTrpGluPro LeuMetArgL ysLeuGlyLe uMetAspAsn GluileLysV alalalysAl aGlualaala GlyHisArgA spThrLeuTyr
1201 CACGATGCTG ATAAAGTGGG TCAACAAAAC CGGGCGAGAT GCCTCTGTCC ACACCTTGCT GGATGCCTTG GAGACGCTGG GAGAGAGACT TGCCAAGCAG
GTGCTACGAC TATTTCACCC AGTTGTTTTG GCCCGCTCTA CGGAGACAGG TGTGGGACGA CCTACGGAAC CTCTGGGACC CTCTCTCTGA ACGGTTCCGC
355 ThrMetLeu ileLysTrpV alasnLysTh rGlyArgAsp AlaservAlH isThrLeule uaspAlaleu GluThrLeug lyGluArgle ualalysGln
1301 AAGATTGAGG ACCACTTGTT GAGCTCTGGA AAGTTTCATGT ATCTAGAAGG TAATGCAGAC TCTGCCWGTG CCTAAGTGTG ATTCTCTTCA GGAAGTGAGA
TTCTAACTCC TGGTGAACAA CTCGAGACCT TTCAAGTACA TAGATCTTCC ATTACGTCTG AGACGGAACA GGATTACACAC TAAAGAGAAAT CCTTCACTCT
388 LysilleGlua spHisLeule uSerSerGly LysPheMetT yrLeuGluGl yAsnAlaasp SerAlaXqqS erOC*
1401 CCTTCCCTGG TTTACCTTTT TTCTGGAAA AGCCCAACTG GACTCCAGTC AGTAGGAAAAG TGCCACAATT GTCACATGAC CCGTACTGGA AGAAACTCTC
GGAAGGGACC AAATGGAAA AAGACCTTTT TCGGGTTGAC CTGAGGTCAG TCATCCTTTC ACGGTGTTAA CAGTGTACTG GCCATGACCT TCTTTGAGAG
1501 CCATCCAAAC TCACCCAGTG GATGGAACAT CCTGTAACTT TTCACTGCAC TTGGCATTAT TTTTATAAGC TGAATGTGAT AATAAGGACA CTATGGAAAT
GGTAGGTTGT AGTGGGTCAC CTACCTTGTA GGACATTGAA AAGTGACGTG AACCGTAATA AAAATATTTCG ACTTACACTA TTATTCCCTGT GATACCTTTA
1601 GTCTGGATCA TTCCGTTTGT GCGTACTTTG AGATTGTTT TGGGATGTCA TTGTTTTTCAC AGCACTTTTT TATCCTAATG TAAATGCTTT ATTTATTTAT
CAGACCTAGT AAGGCAAAACA CGCATGAAAC TCTAAACCAA ACCCTACAGT AACAAAAGTG TCGTGAAAAA ATAGGATTAC ATTTACGAAA TAAATAAATA
1701 TTGGGGTACA TTGTAAGATC CATCTACAAA AAAAAAAAAG GCGGGCCGCG ACTCTAGAGT CGACCTGCAG AAGCTTGGCC GCCATGGCC
AACCCGATGT AACATTCTAG GTAGATGTTT TTTTTTTTTT CCGCCGGCGC TGAGATCTCA GCTGGACGTC TTCGAAACCGG CGGTACCGG

Fig. 8 (cont.)

Fig. 9

1 MEORGONAPAAAGARKRHGPGPREARGARPGRLRVPKTLVLVVAALLLVSAESALITQQD
61 LAFQRAAPQOKRSSPSEGLCPPGHHISEDGRDCISCKYQDYSTHWNDLLFCLRCRCD
121 SGEVELSPCTTTRNTVCQCEEGTFREEDSPERMCRKCRKGPRGMVKVGDCTPWSDDIECVH
181 KESGIIIGVTVAAVLIVAVFCKSLMKKVLPLYLKGICSGGGGDPERVDRSSQRRPGEAD
241 NVLNEIVSILQPTQVPEQEMEVOEPAEPTGVNMLSPGESEHLLLEPAEERSQRRRLVPA
301 NEGDPTELRQCFDDFADLVPFDSWEPLMRKLGIMDNEIKVAKAEAAAGHRDLYTMLIKW
361 VNKTGRDASVHTLLDALETGERLAKQKIEDHLLSSGKFMYLEGNADSALS

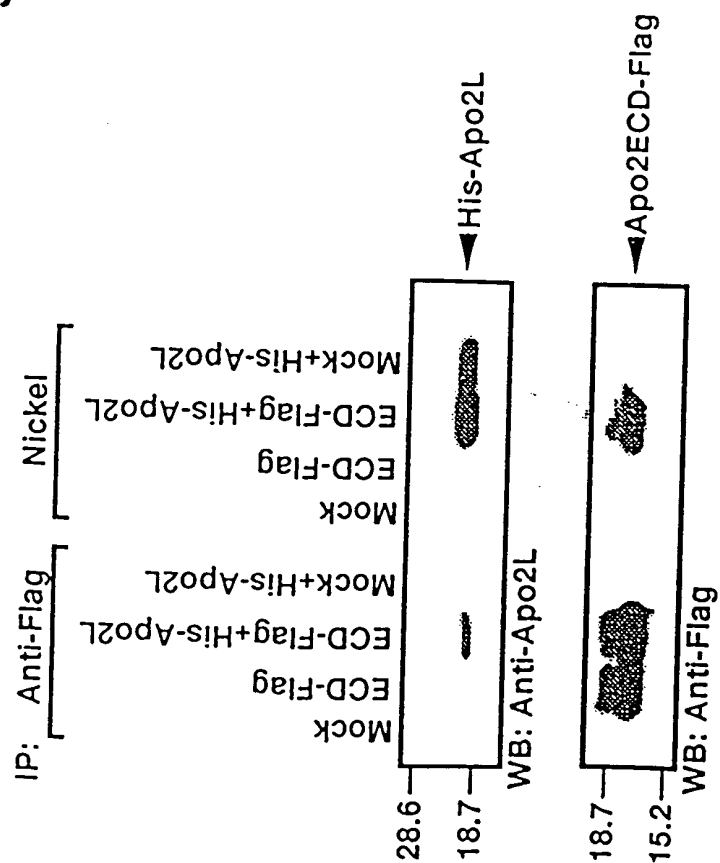
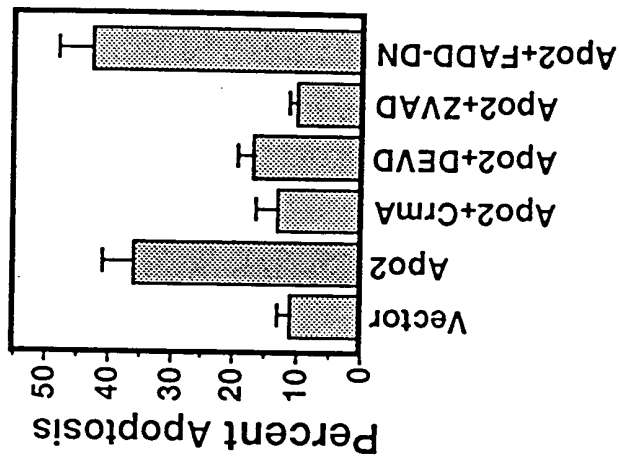
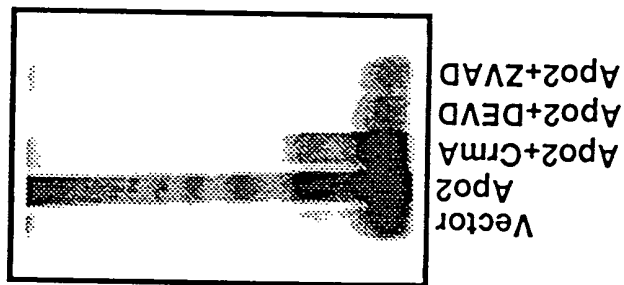
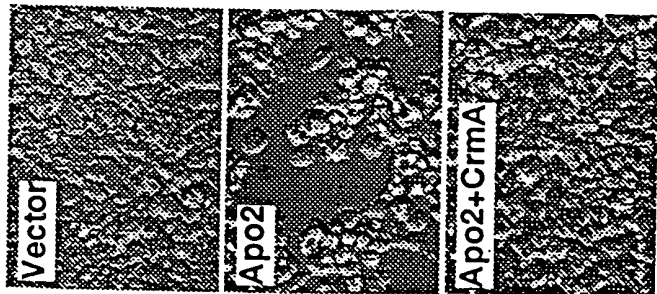
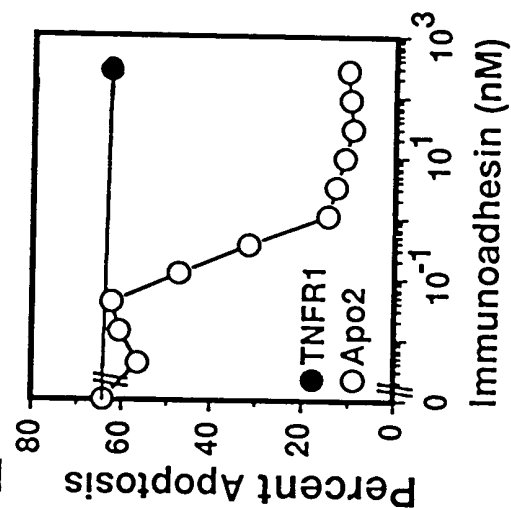
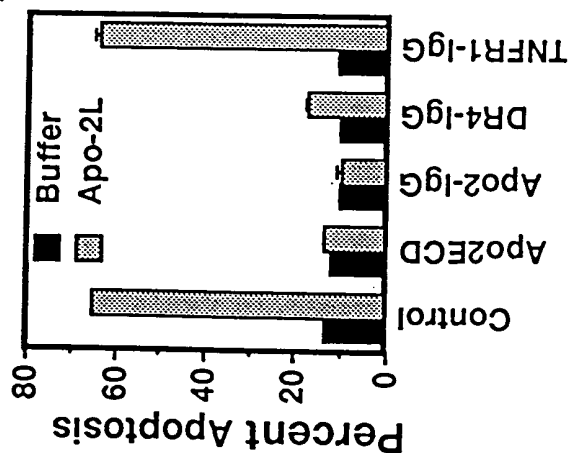


Fig. 11

11 A 11 B 11 C



11 D 11 E



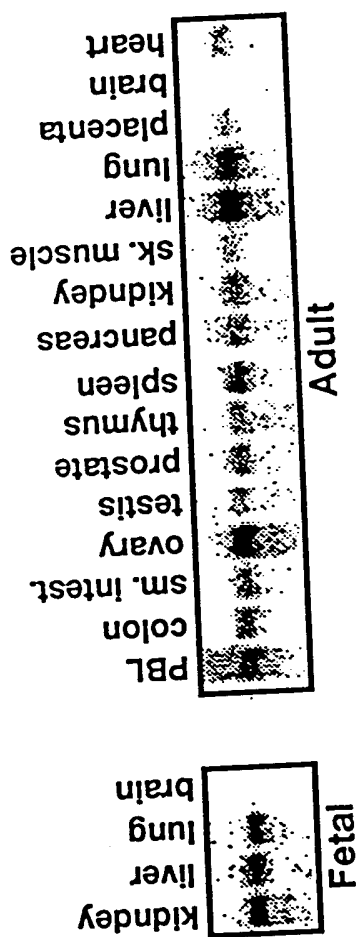


FIG. 13